

AMENDMENTS TO THE SPECIFICATION

Please amend the first paragraph of page 39 as follows:

A low power, high speed full adder cell is described. This cell supports all possible combinations of active high/active low input/output signal polarity (32 different combinations), without adding extra inverters or extra transistors. The cell makes liberal use of ~~CMOS~~ complementary metal oxide semiconductor (CMOS) transmission gates in order to minimize the number of transistors used, and to minimize their stacking. This significantly decreases the total transistor gate area consumed, resulting in minimal power dissipation and minimal cell size.